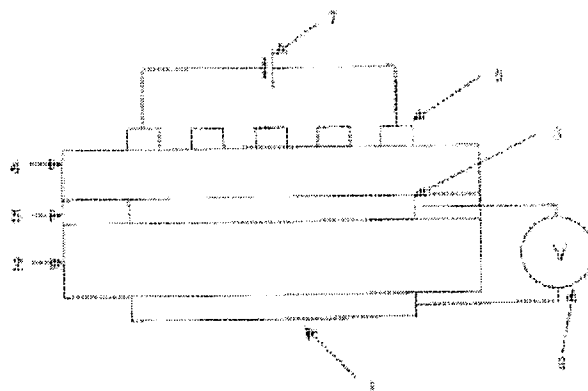


SOLID ELECTROLYTE TYPE NITROGEN OXIDE GAS SENSOR ELEMENT**Veröffentlichungsnummer** JP2001141693 (A)**Veröffentlichungsdatum:** 2001-05-25**Erfinder:** MATSUI MITSUHIKO**Anmelder:** TOKUYAMA CORP**Klassifikation:****- Internationale:** G01N27/409; G01N27/416; G01N27/409; G01N27/416; (IPC1-7): G01N27/416**- Europäische:****Anmeldenummer:** JP19990319841 19991110**Prioritätsnummer(n):** JP19990319841 19991110**Zusammenfassung von JP 2001141693 (A)**

PROBLEM TO BE SOLVED: To provide a solid electrolyte type nitrogen oxide gas sensor in which an electromotive force and a current value hardly change even after the sensor is left without being heated, in a high humidity ambience or a high moisture concentration ambience such as a condensed ambience or the like, and a change of the electromotive force and the current value can be reduced even when a long time has passed after an operation start and can be held within 2.0% as compared with at the operation start. **SOLUTION:** The solid electrolyte type nitrogen oxide gas sensor element has a pair of electrode layers formed to a surface of a solid electrolyte layer including at least one selected from $\text{Li}_2\text{Si}_2\text{O}_5$, $\text{Li}_2\text{TiSiO}_5$, LiLaSiO_4 and $\text{LiLa}_9(\text{SiO}_4)_6\text{O}_2$. The solid electrolyte type nitrogen oxide gas sensor element has a pair of electrode layers formed to a surface of a solid electrolyte layer particularly including at least one selected from (a) $\text{Li}_2\text{Si}_2\text{O}_5$, $\text{Li}_2\text{TiSiO}_5$, LiLaSiO_4 and $\text{LiLa}_9(\text{SiO}_4)_6\text{O}_2$ and at least one selected from (b) titanium oxide, silica, zirconia and zirconium silicate.



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